

GLOBAL IP SOLUTIONS

The world's most widely deployed technology
for processing real-time voice and video over IP

Here's why ...



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See the Difference. Hear the Difference.

More choices = faster deployments

GIPS' solution architecture is multi-tiered — so you get to market faster with the right combination of features and performance. Tier-1 consists of quality-enhancing components (e.g., NetEQ) designed to mitigate a range of network impairments. Tier-2 consists of codecs to support various network environments and performance criteria. Tier-3 consists of MediaEngines — each designed to power a voice or video communications platform while leveraging GIPS' quality-enhancing components for unrivaled performance.

MediaEngines for every platform

VoiceEngine PC is a full-featured software framework tuned for the PC environment. It's designed to handle all voice-related tasks in real-time for VoIP while incorporating quality enhancement components, including codecs, NetEQ and VQE to control delay, jitter, packet loss and echo. And it runs efficiently on operating systems not designed for real-time communications.

VideoEngine PC is a complete high-quality solution for both video and voice. Features include:

- GIPS high-quality and standard video codec support
- Voice and video synchronization (lip sync)
- Traffic shaping and packet loss robustness
- Smart key frame retransmission
- Motion detection triggering for high quality and lower bandwidth
- Adaptable frame rate/bit rate/image size for best audio and video quality
- HD video support for desktops

“Service providers are looking for compelling high quality multimedia applications. The inclusion of GIPS VoiceEngine Multimedia LSVX video in Oracle Communicator further broadens the array of revenue generating services available on the Oracle Service Delivery Platform”

– Vittorio Viarengo, Oracle VP Development

VoiceEngine Mobile and **VideoEngine Mobile** deliver voice and video processing to smartphones, dual-mode phones and PDAs. Platforms include Symbian, Windows Mobile, OSE and iPhone.

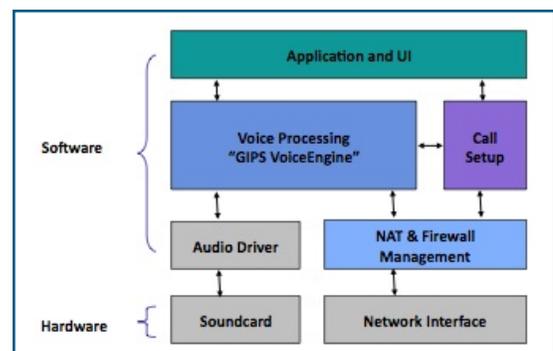
VoiceEngine ATA/IP Phones is embedded voice processing for chips and hardware devices including IADs/ATAs, IP phones, gateways, and wireless devices. It's available on virtually any platform and runs on any OS.

Voice ConferenceEngine is a powerful complete server-based extension of the Voice Engine PC plug-in. It supplies all conference bridge functions, including seamless transcoding and mixing of wideband and narrowband audio.

Voice MediationEngine is an advanced transcoder that minimizes delay from IP endpoint to IP endpoint via NetEQ de-jittering in both directions. It enhances speech quality in a packet loss environment when deployed in a mediation device, gateway or monitoring application while utilizing GIPS and standard ITU codecs. It can be implemented on any standard server platform.

VoiceEngine PC SDK and **VideoEngine PC SDK** simplify development by including all the crucial VoIP and video processing components in one package. They combine GIPS' field-proven VoiceEngine and VideoEngine technologies with SIP call setup and presence management to deliver superior voice and video quality as well as standards based call signaling. In addition, the SDKs' high level APIs ensure easy integration along with the flexibility to build unified communications features into virtually any application.

Video ConferenceEngine enables high-quality real-time audio and video conferencing. It manages all video and audio tasks typically provided by a hardware-based conferencing bridge. It offers multi-location scalability along with the seamless mixing and relay of proprietary and standard video codec streams.



GIPS MediaEngines are right-sized functionality sets designed and architected to support specific voice and video platforms such as PCs, mobile, conferencing servers, and more.

VoiceEngine PC (shown here) handles all voice-related tasks for VoIP softphone implementations.

Plug and play quality enhancement

GIPS core components are matched against specific network impairments to deliver highly granular mitigation tailored to specific media processing environments.

NetEQ, the GIPS flagship product, is a one-sided embedded solution that offers highly advanced jitter buffer and packet loss concealment in voice networks with poor infrastructure.

GIPS Voice Quality Enhancement (VQE) improves the quality of VoIP quality by removing echo and noise, and by adjusting speech levels to achieve a consistent and comfortable listening experience.

Acoustic and network echo cancellation components suppress echo caused by a variety of environmental, network and electrical sources.

Partner with the experts

Global IP Solutions' customers license SDKs, MediaEngines or media processing components. And by integrating GIPS software into your device, application or service, you also integrate our world-class media processing experts into your team. We work directly with your developers to accelerate your technology deployment. In effect, we become your "center of excellence" for best-of-breed real-time media processing over IP.

"Our GIPS-enabled solutions allow enhanced conferencing features to be a cornerstone of WebEx solutions."

– Gary Griffiths, President WebEx Products & Operations

Advanced audio and video codecs

GIPS' standards-based and proprietary codecs support wideband and narrowband audio and video communications in both high bit-rate and low bit-rate conditions. Packet-loss robustness exceeds current standards. And, when combined with NetEQ, they offer lower delay than any other solution in the market.

Audio codecs: iLBC, Enhanced G.711, iSAC, iPCM-wb, and over 20 other standard codecs

Video codecs: LSVX, H.263, MPEG-4, H.264, H.264 SVC (scalable video codec)

Validated by proven industry leaders

Market leaders rely on us to deliver the performance and features critical to their reputations. They include:

- IBM
- Baidu
- Nortel Networks
- Radvision
- Samsung
- Skype
- Brazil Telecom
- Tencent
- Texas Instruments
- Cisco/WebEx Communications
- Yahoo!



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About Global IP Solutions (GIPS)

Global IP Solutions develops industry leading embedded media processing solutions for real-time communications on packet networks. Our broad range of patented multimedia solutions are utilized by network operators, device manufacturers, application developers, internet service providers, infrastructure providers to overcome the inherent problems and general deficiencies introduced by wired or Wi-Fi networks such as delay, jitter, packet loss, clock-drift, acoustic and network echo. www.gipscorp.com

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